

Nu-Metrics Traffic Analyzer Study

Computer Generated Summary Report

City: City of Fairfax

Street: Sager Ave. #4 Red

A study of vehicle traffic was conducted with HI-STAR unit number 1030. The study was done in the East Bound lane on Sager Ave. using counter #4 Red as shown on attached drawing. The counter was placed between Addison Rd. & John Trammell CT. The study began on 01/06/2004 at 12:00 PM and concluded on 01/09/2004 at 12:00 PM, lasting a total of 72 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 6,867 vehicles passed through the location with a peak volume of 334 on 01/06/2004 at 05:00 PM and a minimum volume of 2 on 01/07/2004 at 03:00 AM. The AADT Count for this study was 2,289.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	64	310	1068	2296	1717	518	262

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 29 mph with 76.8 percent exceeding the posted speed of 25 mph. The HI-STAR found 12.5 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 34.55 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
5905	251	70	7	2	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 6,156 which represents 98.70 percent of the total classified vehicles. The number of Small Trucks in the study was 70 which represents 1.10 percent of the total classified vehicles. The number of Trucks/Buses in the study was 7 which represents 0.10 percent of the total classified vehicles. The number of Tractor Trailers in the study was 2 which represents 0.00 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 01/06/2004 at 05:00 PM the average headway between the vehicles was 10.75 seconds. The slowest traffic period was on 01/07/2004 at 03:00 AM. During this slowest

period, the average headway was 1200.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 27 and 52 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 93.06 percent of the time.